Figure 1

Figure 2

Figure 3

Figure 5

Figure 9

(+)-C (4)

a)
$$+BuLi$$
 (3 equiv)
$$E_{2}O$$

$$0 O O TBS$$

$$E_{2}O, RT$$

$$E_{3}O O TBS$$

$$E_{4}O, RT$$

$$E_{5}O P TBS$$

$$E_{5}O, RT$$

$$E_{5}O P TBS$$

$$E_{5}O, RT$$

$$E_{5}O P TBS$$

Figure 11

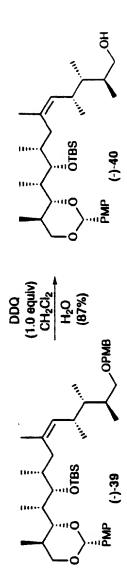
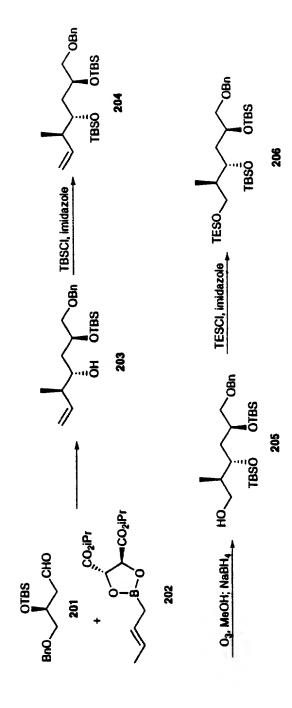


Figure 12

Figure 15

Figure 18



ĕ

305

ŝPh

96 4

HgCl₂, MeCN

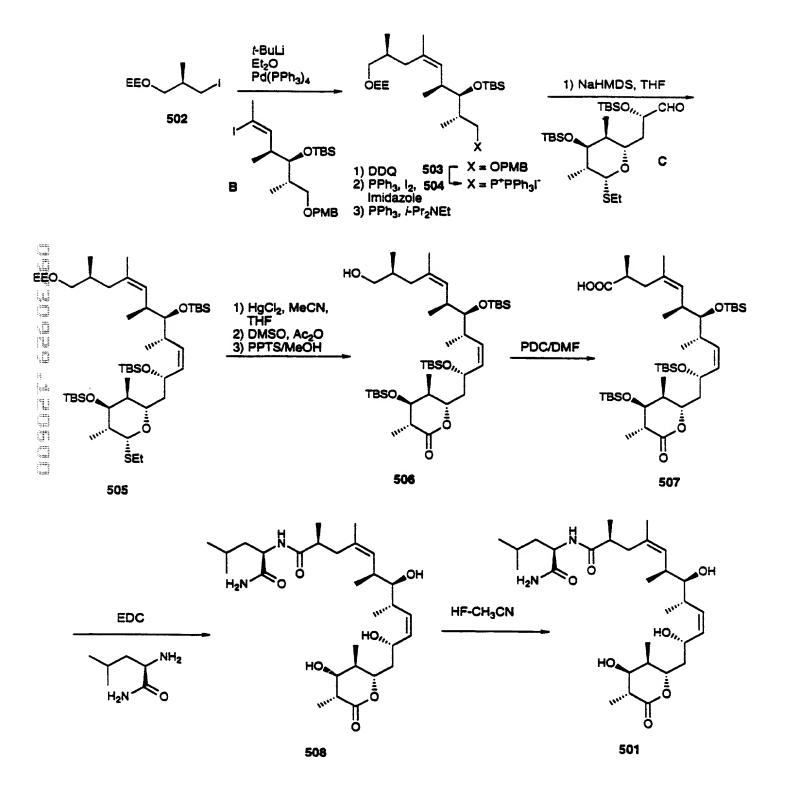


Figure 25

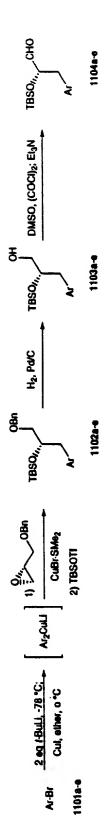
Figure 26

Figure 27

Figure 28

Figure 29

Figure 31



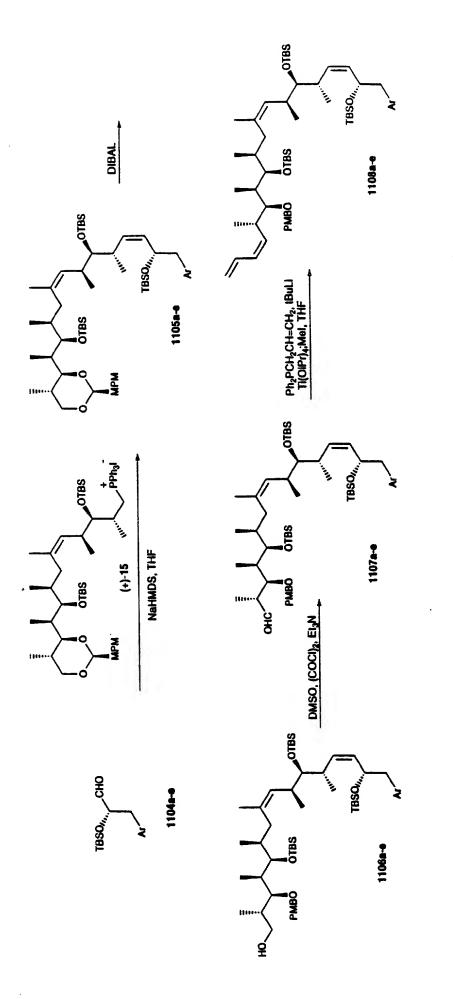
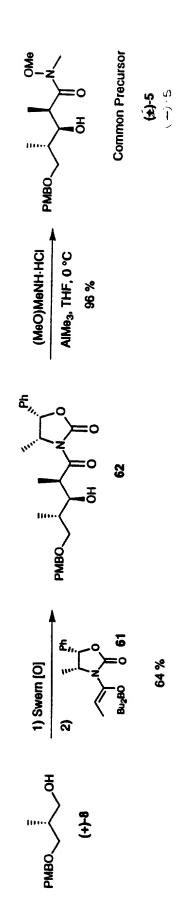


Figure 37



67

99

O₃, CH₂Cl₂

TBS-CI, imidazole

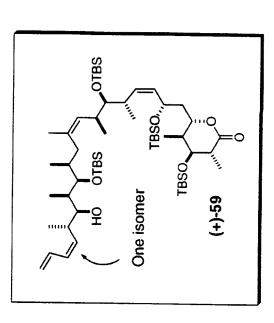
82 %

65

DMF

84 %

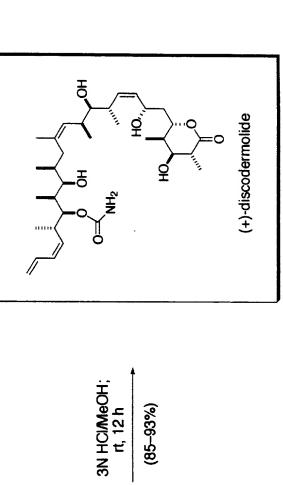
58



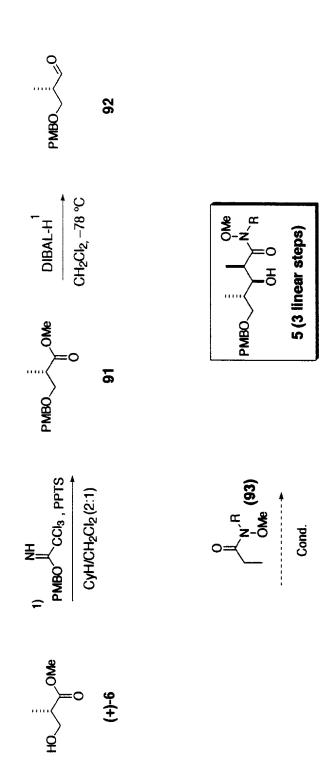
DDQ, CH₂Cl₂, H₂O

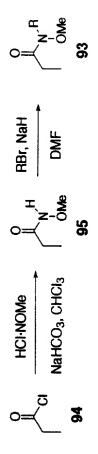
92–96%
based on starting purity of **58**





(85-93%)





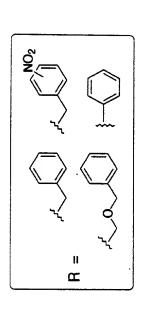


Figure 51

1205

Figure 52

Figure 53

1211

NH₂